



Castle Environmental 2018 Site Report – Cardiff – PC 4.2.2a

In 2018, the pace of infrastructure development has stabilised. The waste side of the business continues to serve a number of local and national customers. The construction side of the site, which utilises washed fines aggregate has continued to supply local customers.

At the end of 2018 the total number of staff employed across both businesses was 23, (9 staff working on the waste facility).

A permanent Site Manager is in post and additional Site Chemists have been employed throughout the year. The total quantity of waste accepted at the site in 2018 was almost 26,000 Tonnes which is in line with the previous year.

Performance

The site has experienced some compliance issues with regard to the trade effluent consent throughout 2018. Castle have worked closely with Dwr Cymru and made improvements to site operations that have resolved the issue. Other than issues relating to the trade effluent consent there have been no significant incidents, no formal complaints and no reportable releases or spillages at the site.

Reported Energy usage has increased, from the previous year. This is mainly due to the increased production for the adjoining construction business. The consumption of the two businesses cannot be easily separated so this year a total consumption value has been included in the reporting form.

Consumption of gas oil has increased against the value reported in 2017. The consumption is an estimated value obtained from the overall consumption for the two businesses.

The volume of waste removed from site is 7236.3 Tonnes this is greater than the previous year where 4097.3 Tonnes of waste was removed. This increase is related to changes in the proportions of various waste streams accepted at the site and includes an increase in the quantity of waste disposed of to landfill.

Water use at the site has previously been under reported and retrospective reporting forms have been completed to take account of this. The consumption for 2018 has been estimated to be 6324m³, this is a slight

reduction on the estimated consumption for 2017 of 6615m³. This slight decrease is due to variations in process volumes throughout the year.

With regard to health and safety performance, the site has maintained a strong performance, with no serious accidents and no RIDDOR reportable accidents or incidents.

Improvements

The site management systems have been subject to annual internal and external audits with no issues identified.

The main improvements made at the site throughout 2018 have been in relation to the management of process effluents. After the decline in effluent quality, effluent production and management has been revised and improved. Steps taken have included;

- Increased frequency of desludging operations at key points within the process
- Provision of bag filters to be used as required
- Allowing further effluent settlement prior to discharge
- Recirculation system to improve sampling

Steps have also been taken to improve the resilience of the on-site laboratory at the Cardiff site. These steps have included an audit program, conducted by technical staff within group. In addition, further analytical equipment has been purchased, this has included a new photometer and provision of an Ion Chromatograph.

New technical staff have been employed in the roles of Senior Chemists. Both members of staff bring with them experience working within external UKAS accredited laboratories. A third graduate Chemist has been added to the team to further support the function. Training has been provided in key SOPs and general GLP.

Planned Preventative Maintenance Programs have continued to be developed utilising an online auditing tool.

Raw material consumption has been reduced by utilising wastes in place of raw materials such as hydrated lime. In addition, liquid effluents continue to be used as a replacement for water when making up alkaline slurries.

Summary

The site has been able to work with Dwr Cymru to improve effluent quality throughout the year. It is anticipated that the improvements made will also serve to make the site more efficient going forward. It is anticipated that further improvement to the waste business will be made throughout 2019.

These improvements will allow the site to serve more local and national customers and ensure the site continues to be a key strategic site for the management of waste in South Wales.